

Recent IBM Patents

The following patents were recently issued by the countries in which the inventions were made.

France

7,708,591	H. Nussbaumer	Arithmetic Circuits for Implanting Pseudo-Mersenne Transistors
7,710,338	P. Hernandez, D. Reynes, J. P. Suzzoni, N. O. Tu, and J. C. Grange	Extension Line with Logic Ring Trip Detect
7,713,995	D. Esteban, C. Galand, and A. Croisier	Quantizing Process with Dynamic Allocation of the Available Bit Resources and Device for Implementing Said Process
7,720,729	M. Cukier	Improving Memory Facility of Programs
7,720,730	P. de Bord and J. L. Marijon	DC Offset Compensation in an Aid Conversion

Germany

2,136,536	J. G. Krieg and N. P. Pleus	Improvements Relating to the Compaction and Expansion of Data
2,354,389	W. Beismann, H. H. Lampe, and W. H. Pohle	Method of Analysis and Diagnosis in Electronic Data Processing Systems
2,530,887	E. Goldbach, H. Drescher, P. Mannherz, S. Neuber, H. Painke, P. Rudolph, H. von der Heyden, and F. Rausch	Data Processing Apparatus
2,739,502	W. Kulcke, P. Nehmiz, J. Greschner, and H. Bohlen	Method of Exposure by Means of Corpuscular Beam Shadow Printing
2,756,764	D. W. Bazlen, H. Chilinski, R. Berger, H. R. Geng, A. Blum, and D. W. Bock	Arrangement for Synchronizing the Processor and Store in a Data Processing Apparatus
2,821,883	A. Schmackpfeffer, J. Ziller, G. Makosch, and F. Schedewie	Apparatus for Machining Material
2,839,950	H. H. Lampe, H. Drescher, and H. Imbusch	Exposure Process

United States

4,180,416	G. E. Brock	Thermal Migration-Porous Silicon Technique for Forming Deep Dielectric Isolation
4,180,432	H. A. Clark	Process for Etching SiO ₂ Layers to Silicon in a Moderate Vacuum Gas Plasma
4,181,973	S. C. Tseng	Complex Character Generator
4,181,977	D. C. Van Voorhis	Random Access Bubble Memory with Unified Read/Write Cycle
4,181,981	B. El-Kareh, J. E. Gersbach, and R. J. Houghton	Bipolar Two Device Dynamic Memory Cell
4,182,636	R. H. Dennard and V. L. Rideout	Method of Fabricating Self-Aligned Contact Vias
4,183,034	R. G. Burke and J. S. Kolodzey	Pin Photodiode and Integrated Circuit Including Same
4,183,040	V. L. Rideout	MOS RAM with Implant Forming Peripheral Depletion MOSFET Channels and Capacitor Bottom Electrodes
4,183,085	D. J. Roberts and J. Simmons	Protection of Data Processing System Against Unauthorized Programs
4,183,657	L. M. Ernst, S. D. Seigal, and G. W. Van Cleave	Dynamic Reference for an Image Quality Control System
4,183,780	C. M. McKenna and H. K. Wilcox	Photon Enhanced Reactive Ion Etching
4,183,781	J. M. Eldridge, W.-Y. Lee, and G. C. Schwartz	Stabilization Process for Aluminum Microcircuits Which Have Been Reactive-Ion Etched
4,183,797	T. N. Kennedy, W. C. Lester, G. W. McDonough, and J. D. Michaelson	Two-Sided Bias Sputter Deposition Method and Apparatus
4,184,063	G. M. Heiling, L. F. Knappe, and J. L. Regehr	Thermal Printer Write Head Assembly
4,184,630	D. R. Woodward and J. W. Marshall	Verifying Circuit Operation
4,184,909	K. Chang, D. C. Cosman, H. M. Gartner, and A. J. Hoeg, Jr.	Method of Forming Thin Film Interconnection Systems
4,185,269	P. Hodges, W. J. Schaeuble, and P. L. Shaffer	Error Correcting System for Serial by Byte Data

4,185,290	A. R. Hoffman	Compensation for Aerodynamic Drag on Ink Streams from a Multi-Nozzle Ink Array
4,185,314	M. R. Hatchett and L. J. Rigbey	Record Disk Cartridge Having Eject Spring Within Cartridge
4,185,814	A. H. Buchmann, T. J. Cochran, W. W. Ficker, A. A. Stricker, and W. von Kaenel	Pick up and Placement Head for Green Sheet and Spacer
4,185,815	P. E. Abbott and T. Noyes	Sheet Feed
4,186,348	A. H. Lautier and J. L. Monrolin	Receiver for Data Transmitted by Means of the Interleaved Binary Phase Shift Keyed Modulation Technique
4,186,406	D. J. Bahr and K. H. Burckardt	Multiple-Electrode Print Head for Electroerosion Printers
4,186,408	R. P. Esch and P. C. Huang	IGFET with Partial Planar Oxide
4,186,438	P. H. Benson, M. L. Kingdom-Hockings, B. H. Middleton, M. C. Pinnell, T. E. Robinson, R. E. Sheeler, and J. Simmons	Interactive Enquiry System
4,186,441	W. Baechtold and P. Gueret	Magnetic Vortex Generator with a Vortex Pool and Single Vortex Transfer
4,186,871	R. W. Anderson, S. F. Brock, and M. L. Gee	Transaction Execution System with Secure Encryption Key Storage and Communications
4,186,918	W. W. Ficker, D. E. Lonser, W. G. Rance, A. A. Stricker, and W. von Kaenel	Method and Apparatus for Locating and Aligning Flimsy Sheets
4,186,977	P. A. Gilovich and J. J. Lynott	Self-Locking Depository Container
4,187,003	D. J. Barclay	Electrolyte for Electrochromic Display Device
4,187,140	M. Berkenblit and A. Reisman	Method for Etching Silicon and a Residue and Oxidation Resistant Etchant Therefor
4,187,329	W. Crooks	Electrophotographic Developing Process and Compositions for Use Therein
4,187,331	W. H.-L. Ma	Fluorine Plasma Resist Image Hardening
4,187,452	L. F. Knappe, R. H. Peterson, and G. J. Stroebel	Electromechanical Torsional Oscillator with Resonant Frequency and Amplitude Control
4,187,553	K. Y. Ahn, M. S. Cohen, J. V. Powers, and L.-J. Tao	Pedestal Bubble Domain Chip and Processes for Making Same
4,188,124	W. Jaerisch and G. Makosch	Interferometric Measuring System
4,188,635	F. P. Giodano, L. Kuhn, R. Lane, C.-H. Lee, and G. O. Zierdt	Ink Jet Printing Head
4,188,649	S. D. Cheatham, N. L. Robinson, and E. W. Smathers	Magnetic Head Having a Jagged-Edged Gap, and Method for Producing such Head
4,188,665	D. M. Nagel, D. O'Neal, P. W. Petroskey, J. W. van den Berg, D. V. Wildes, and D. C. Wu	Programmable Communications Subsystem
4,188,668	D. E. Finlay	Computer-Controlled Copier-Printers
4,188,694	R. T. Rhodes	Corona Grid Wire Assembly and Mounting
4,189,133	F. V. Arrasmith, D. G. Bruns, and D. G. Killam	Document Stacking Table Lowering Method, Apparatus and Controlling Circuitry Therefor
4,189,246	M. H. Kane and N. F. Barrow	Variable Print-Hammer Control for On-the-Fly-Printing
4,189,642	D. J. Justus and G. L. Smith	Method and Apparatus for Drum Corona Current Measurement and Alignment
4,189,759	R. C. Bauck, R. E. Kellow, Sr., R. E. Norwood, and D. W. Schaefer	Cantilevered Head Support Arm Having Increased Resonance Frequency
4,189,768	J. S. Liptay and J. W. Rymarczyk	Operand Fetch Control Improvement
4,189,770	P. M. Gannon and J. S. Liptay	Cache Bypass Control for Operand Fetches
4,189,771	P. R. Roever	Method and Means for the Detection of Deadlock Among Waiting Tasks in a Multiprocessing, Multiprogramming CPU Environment
4,189,772	J. S. Liptay	Operand Alignment Controls for VFL Instructions
4,189,781	G. L. Douglas	Segmented Storage Logging and Controlling
4,190,466	A. Bhattacharyya and F. W. Wiedman III	Method for Making a Bipolar Transistor Structure Utilizing Self-Passivating Diffusion Sources
4,190,488	H. F. Winters	Etching Method Using Noble Gas Halides
4,190,683	J. E. Davies and G. Galli	Method for Forming a Liquid Phase Epitaxial Film on a Wafer
4,190,845	L. M. Cooper and W. J. Wipke	Electric Field Orientation for Ink Jet Printers for Vertical and Horizontal Printing
4,190,870	R. Avina and P. F. Merrell	Disk Drive Assembly
4,190,872	R. E. Jones, Jr. and W. Nystrom	Thin Film Inductive Transducer
4,190,900	D. C. Van Voorhis	Major/Minor Loop Bubble Memory with Timing Loop
4,191,603	P. L. Garbarino, M. Revitz, and J. F. Shepard	Marking Semiconductor Structure with Improved Phosphosilicate Glass Isolation
4,191,899	J. J. Tomczak and R. N. Wilson	Voltage Variable Integrated Circuit Capacitor and Bootstrap Driver Circuit
4,191,938	J. Gow III, H. S. Hoffman, and E. Stephens	Cermet Resistor Trimming Method

4,191,977	J. Lewkowicz	Biasing of Magnetoresistive Read Head Using Gytrators
4,191,980	F. K. King, R. J. Maurine, and D. J. Wanek	Transducers with Tapered Edge Profiles and Assembly Thereof
4,191,981	H. E. Van Winkle	Record Storage Apparatus Employing Enhanced Transducer Positioning Servomechanisms
4,191,997	F. A. Luiz	Circuits and Methods for Multiple Control in Data Processing Systems
4,192,003	G. W. Brock, E. J. Pawlowski, and R. R. Stone	Signal Recovery Method and Apparatus
4,193,082	W. E. Dougherty	Multi-Layer Dielectric Structure
4,193,101	J. A. Carlson, K. D. Rusch, and D. L. Sippel	Collet Loading Apparatus
4,193,102	W. E. Beuch, G. J. O'Konski, K. D. Rusch, and T. A. Wytanski	Disk File Machine with Cable Connection to Transducers
4,193,127	J. E. Gersbach	Simultaneous Read/Write Cell
4,193,131	R. E. Lennon, S. M. Matyas, C. H. W. Meyer, J. Oseas, P. N. Prentice, and W. L. Tuchman	Cryptographic Verification of Operational Keys Used in Communication Networks
4,193,445	R. C. Chu, U. Hwang, and R. E. Simons	Conduction Cooled Module
4,193,703	W. Sakmann	Matrix Printer with Piezoelectrically Driven Printing Needles
4,194,135	W. A. Christopherson	Electronic Signal Level Translating Circuitry
4,194,210	K. A. Krause	Multi-Nozzle Ink Jet Print Head Apparatus
4,194,211	A. R. Hoffman and G. B. Lammers	Charge Electrode Array for Multi-Nozzle Ink Jet Array
4,194,245	R. A. Pascoe, C. N. Sprott, and D. W. Westcott	System for Randomly Accessing a Recirculating Memory
4,195,114	E. G. Crosby, J. E. Henning, and F. C. Hornbeck	Conductive Plastic and Method of Preparation
4,195,196	H. Feistel	Variant Key Matrix Cipher System
4,195,200	H. Feistel	Key Controlled Block-Cipher Cryptographic System Employing a Multidirectional Shift Matrix
4,195,307	C. G. Jambotkar	Fabricating Integrated Circuits Incorporating High-Performance Bipolar Transistors
4,195,320	R. Andersen	Record Track Identification and Following
4,195,322	A. R. Cox, R. Pascual, and L. J. Rigbey	Record/Playback Head and Data Storage Apparatus Therefor
4,195,351	R. P. Barner, A. M. Gulick, J. A. deVeer, and J. G. Oblonsky	Loop Configured Data Transmission System
4,195,892	T. J. Riley, N. Vecchiarelli, and R. A. Fritz	Batch Production of Plasma Display Panels
4,196,062	D. J. Barclay and J. M. Vigar	Method of Brightening Electrodeposited Chromium
4,196,363	S. D. Malaviya	Open Collector Bit Driver/Sense Amplifier
4,196,389	H. J. Kelly, D. J. Perlman, and A. V. S. Satya	Test Site for a Charged Coupled Device (CCD) Array
4,196,440	N. G. Anantha, H. S. Bhatia, S. P. Gaur, and H. B. Pogge	Lateral PNP or NPN with a High Gain
4,197,022	W. L. Dollenmayer	Multiple Spoked Wheel Printer
4,197,135	W. D. Bailey, B. L. Beach, K. E. Edds, and D. L. Elbert	Waterfast Ink for Use in Ink Jet Printing
4,197,332	A. N. Broers, J. J. Cuomo, R. B. Laibowitz, and W. W. Molzen, Jr.	Sub 100Å Range Line Width Pattern Fabrication
4,197,588	W. C. Cason and F. C. Haydon	Segmented Storage Logging and Controlling for Random Entity Selection